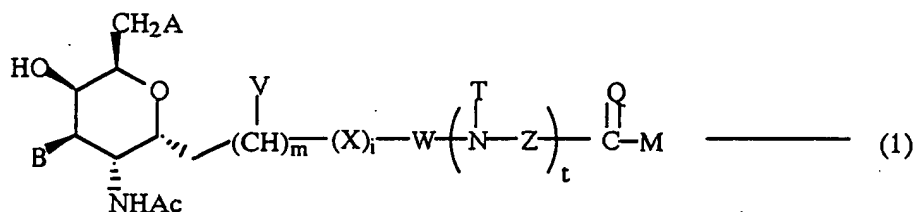


WHAT IS CLAIMED IS :

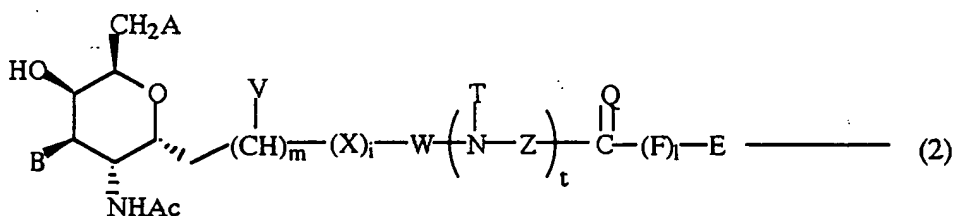
1. A compound of the general formula (1),



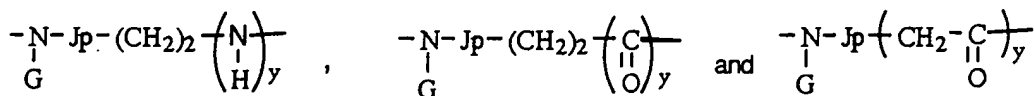
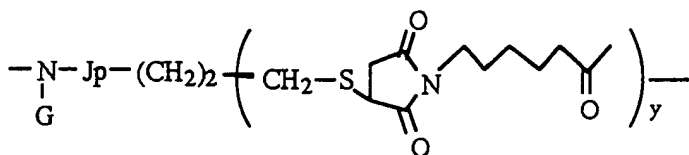
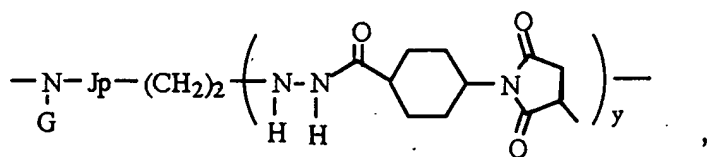
wherein A represents OH or sialic acid and/or it's derivatives, and B represents OH or galactose and/or it's derivatives; T represents H or protecting groups of amine; M represents H or OH; X represents oxygen atom, -NH- or S(O)_z (where z is 0,1 or 2); Q is H or oxygen atom; V represents lower alkyl or H; W is straight or branched alkylene groups from 0 to 5; Z is straight or branched alkylene groups from 1 to 5; i, m, and t is 0 or 1;

non-mucin type synthetic compounds or it's carrier conjugated compounds, which have above mentioned compounds as a core structure of antigen.

2. A compound of the general formula (2),



wherein A, B, T, X, Q, V, W, Z, i, m, and t have above-mentioned meanings; E represents pharmaceutically acceptable carrier compounds; l is 0 or 1; F is showed followings,

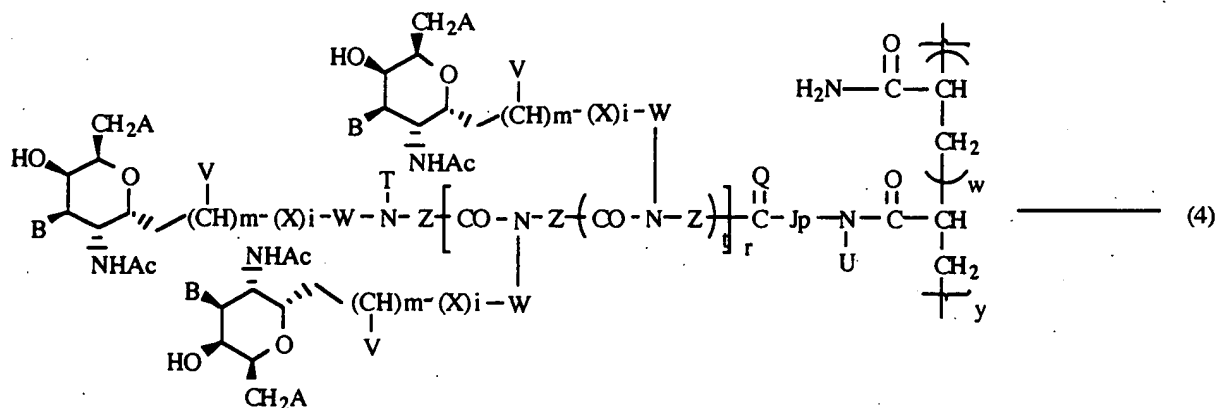


wherein J is -CH₂CH₂X- or -N(L)-CH₂CO- (where X have above-mentioned meanings; L is H or lower alkyl); G is H or lower alkyl; p is 0 to 3; y is 0 or 1;

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

$$\begin{array}{c}
 \text{CH}_2\text{A} \\
 | \\
 \text{HO} \quad \text{O} \\
 | \quad | \\
 \text{B} \quad \text{NHAc} \\
 | \\
 \text{---} (\text{CH})_m \text{---} (\text{X})_i \text{---} \text{W} \text{---} \text{N} \text{---} \text{Z} \text{---} \left[\text{CO} \text{---} \text{N} \text{---} \text{Z} \text{---} (\text{CO} \text{---} \text{N} \text{---} \text{Z})_t \right]_r \text{---} \text{C} \text{---} (\text{F})_l \text{---} \text{E} \\
 | \\
 \text{NHAc} \\
 | \\
 \text{B} \quad \text{O} \\
 | \quad | \\
 \text{HO} \quad \text{CH}_2\text{A}
 \end{array}
 \quad (3)$$

4. A compound of the general formula (4),



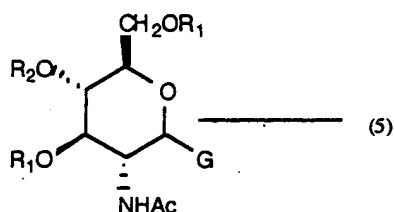
wherein A, B, T, X, Q, V, W, Z, J, i, m, t, p, and r, have above-mentioned meanings; U represents H or lower alkyl; w is 0 to 50; y is 1 or 50.

5. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein A is sialic acid and/or it's derivatives, B is OH.

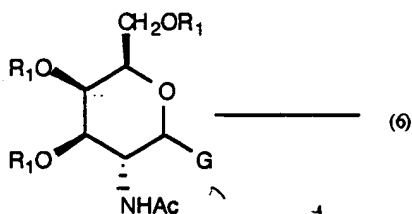
6. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein A is OH, B is galactose and/or it's derivatives.

7. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein both A and B are OH.

8. A process for the preparation of a galactopyranose, which propaty of inversion of OR₂ to OR₁ in above mentioned glucopyranose derivatives to obtain a compound of the general formula (6)



wherein OR₁ is H or protecting group of a hydroxy group such as acetyl group; R₂ is leaving group such as tosylate, trifluoromesylate or methanesulfonate; G is allyl or protected hydroxyl group.



9. Immunotherapy using non-mucin type synthetic compounds or it's carrier conjugated compounds which mentioned claim 1~7.

10. Monoclonal antibodies which were prepared using non-mucin type synthetic compounds or it's carrier conjugated compounds showed in claim 1~7.

11. Antitumor agents which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

12. Immunostimulant for tumor, which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 active ingredients.

13. Anti human immunodeficiency virus (HIV) agents which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

15. Therapeutic method for tumor using that contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

9.00
9.18

[illegible]